FAA Commercial Aviation Forecast Conference

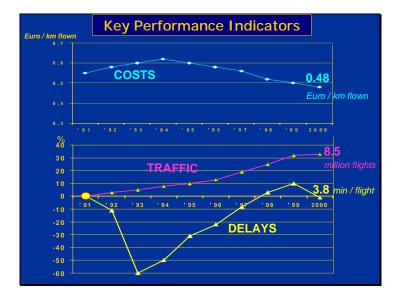
Washington, 13-14 March 2001

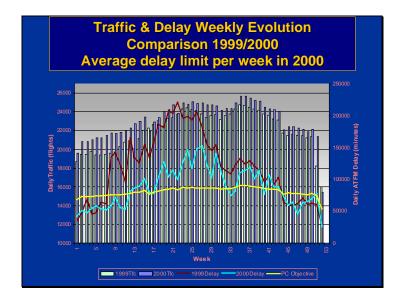
EUROPEAN ATC MODERNISATION

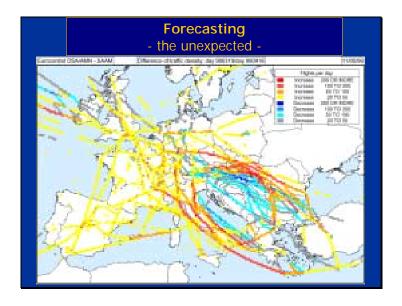
George PAULSON

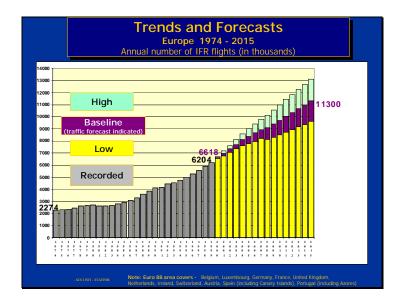
Director
Safety, Airspace, Airports & Information Services
EUROCONTROL

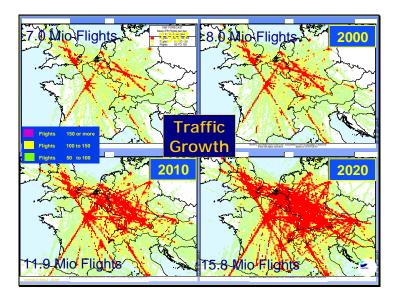
Meeting Customer Demand - Key Business Drivers • Grow capacity to meet forecast demand • Contain delays • Improve flight efficiency • Direct routes • optimum flight levels • Maintain/increase safety • Hold down accidents/incidents as traffic grows

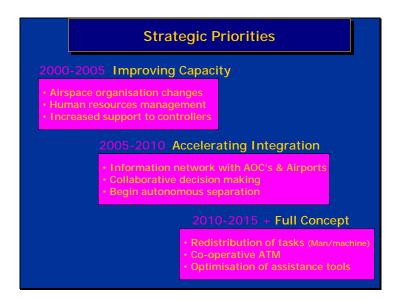












European ATC Modernisation Programmes

• Route Network Development : on-going • Improved flow management : 2001 - 2002

• RVSM implementation : 2002

• **8.33 kHz expansion** : 2001 - 2002

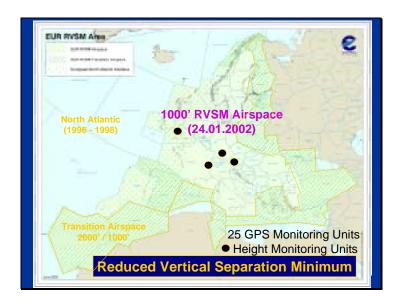
• Free Route Airspace : from 2003

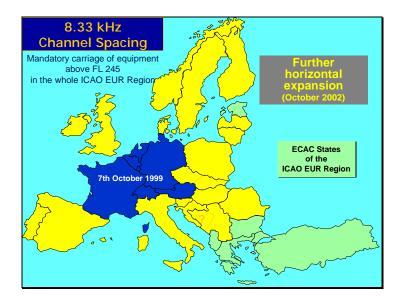
• Controller - Pilot Data Link : from 2003

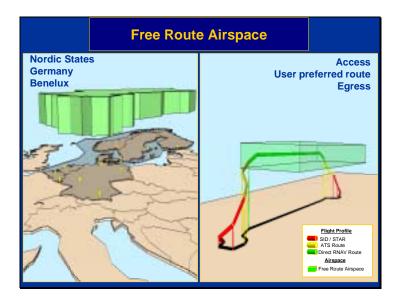
• Satellite Navigation : from 2004

• Central European Air Traffic : from 2007

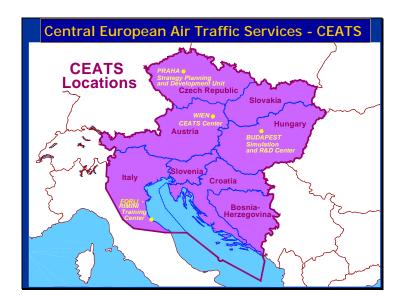
Control Centre & Services



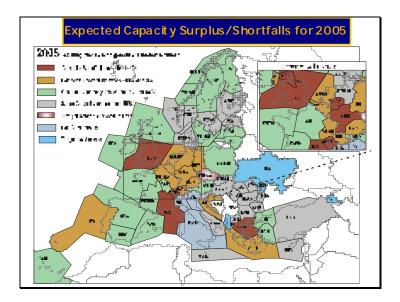








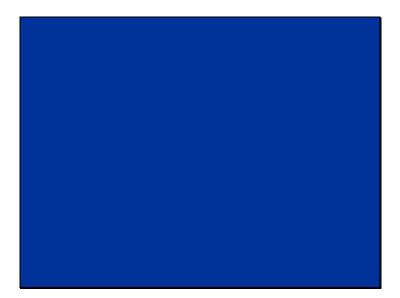
Slide 15



European ATC Modernisation - The Prognosis -

- SAFETY MANAGEMENT
 - clear split from regulation
 - meet European regulatory requirements
- ATC MODERNISATION
 - Implement ATM2000+ Strategy
 - European & National Programmes
- PERFORMANCE-BASED CAPACITY PLANNING
 - 2001 en-route delay KPI 2.8 mins
 - Capacity boosts at key ACCsDelays contained to 2006

Slide 17

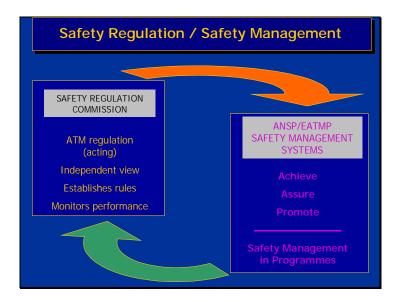


Enhancing Capacity

- Measure and manage
- Increase controller numbers
- Improve airspace structure
- Improve civil/military co-operation
- Introduce new ATM system components

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ESARR - EUROCONTROL Safety Regulatory Requirements Reporting and Assessment of Safety Occurrences in ATM ESARR2 - Effective 1 Jan. 2000 Use of Safety Management Systems by ATS Service Providers ESARR3 - Approved July 2000, Effective July 2003 Risk Assessment and Mitigation in ATM ESARR4 - Approval expected April 2001 ATM Services' Personnel ESARR5 - Approved Nov. 2000, Effective Nov. 2003 Software in CNS/ATM Systems ESARR6 - Working Draft

EUROCONTROL - Core Business -

Management of the <u>European Air Traffic Management Programme</u> (EATMP)

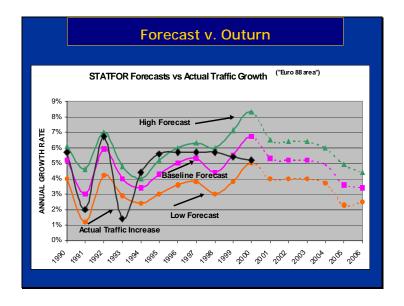
Operation of a Central Flow Management Unit (CFMU)

Simulation and R&D centre

<u>Collection of Route Charges</u> (c. €5 billion in FY2000)

Management of an international (4 States) <u>Air Traffic Control Centre</u>
Development of an international (8 States) Air Traffic Control Centre

Provision of **education**, training and transfer of knowledge





Key Areas for Pan-European Improvement

- Airspace Management

 - re-organised airspace
 more flight levels
 co-operation with military
 improved flows

• Human Resources

- increased recruitment better deployment

- Systems
 Communications, Navigation, Surveillance
 Air Traffic Control Centres

Constraints to Growth

- AirportsEnvironment

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